

<p>97-449307/42 A41 E17 CHPE- 94.08.10 CHINA PETROLEUM CHEM CORP *CN 1116615-A 94.08.10 94CN-108094 (96.02.14) C07C 29/17, 31/20 1,4-Butane-diol preparation C97-143349 Addnl. Data: TONG L, WANG H, GAO G</p>	<p>A(1-E14) E(10-E4B) N(2-D, 3-B, 3-D1, 3-F)</p>
<p>1,4-Butanediol is prepared by a gas-phase catalytic hydrogenation of maleic anhydride and/or succinic anhydride in the presence of catalyst whose formula is $Cu_aZnCr_bM_cO_x$, where $a = 0.1-1$, $b = 0.1-5$, $c = 0.1-5$, x satisfies valence requirements, and M is one element of Group IVB, under conditions: 3-9 MPa, 190-300 °C, anhydride volume space velocity 0.02-0.30/hr and 150-500:1 of mole ratio of H_2 to anhydride. It features high space-time yield, selectivity of 1,4-butanediol and stability.</p>	<p>CN 1116615-A</p>